## **SIEMENS**

Data sheet 3RW40 55-6BB35

SIRIUS SOFT STARTER, S6, 117 A, 100 HP/575 V, 50 DEG., 400-600 V AC, 115 V AC, SCREW TERMINALS



General technical data:				
product brand name	SIRIUS			
Product feature				
<ul> <li>integrated bypass contact system</li> </ul>	Yes			
<ul><li>Thyristors</li></ul>	Yes			
Product function				
<ul> <li>Intrinsic device protection</li> </ul>	Yes			
<ul> <li>motor overload protection</li> </ul>	Yes			
<ul> <li>Evaluation of thermistor motor protection</li> </ul>	No			
External reset	Yes			
Adjustable current limitation	Yes			
• inside-delta circuit	No			
Product component Motor brake output	No			
Equipment marking acc. to DIN EN 61346-2	Q			
Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750	G			

Product designation

soft starters for standard applications

Operating current		
• at 40 °C Rated value	A	134
● at 50 °C Rated value	Α	117
● at 60 °C Rated value	Α	100
Mechanical power output for three-phase motors		
● at 400 V		
<ul> <li>at standard circuit at 40 °C Rated value</li> </ul>	W	75 000
● at 500 V		
— at standard circuit at 40 °C Rated value	W	90 000
Operating frequency Rated value	Hz	50 60
Relative negative tolerance of the operating	%	-10
frequency		
Relative positive tolerance of the operating frequency	%	10
Operating voltage at standard circuit Rated value	V	400 600
Relative negative tolerance of the operating voltage at standard circuit	%	-15
Relative positive tolerance of the operating voltage at standard circuit	%	10
Minimum load [% of IM]	%	20
Adjustable motor current for motor overload	Α	59
protection minimum rated value		
Continuous operating current [% of le] at 40 °C	%	115
Active power loss at operating current at 40 °C during operation typical	W	60
Control electronics:		
Type of voltage of the control supply voltage		AC
Control supply voltage frequency 1 Rated value	Hz	50
Control supply voltage frequency 2 Rated value	Hz	60
Relative negative tolerance of the control supply voltage frequency	%	-10
Relative positive tolerance of the control supply voltage frequency	%	10
Control supply voltage 1 at AC		
• at 50 Hz Rated value	V	115
• at 60 Hz Rated value	V	115
Relative negative tolerance of the control supply voltage at AC at 60 Hz	%	-15
Relative positive tolerance of the control supply voltage at AC at 60 Hz	%	10
voltage at 710 at 00 112		
Display version for fault signal		red
Display version for fault signal		red
		red S6

Height	mm	198
Depth	mm	250
Mounting type		screw fixing
mounting position		With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t
Required spacing with side-by-side mounting		
• upwards	mm	100
• at the side	mm	5
<ul><li>downwards</li></ul>	mm	75
Installation altitude at height above sea level	m	5 000
Cable length maximum	m	300
Number of poles for main current circuit		3

Connections/ Terminals:		
Type of electrical connection		
for main current circuit		busbar connection
<ul> <li>for auxiliary and control current circuit</li> </ul>		screw-type terminals
Number of NC contacts for auxiliary contacts		0
Number of NO contacts for auxiliary contacts	_	2
Number of CO contacts for auxiliary contacts		1
Type of connectable conductor cross-section for main contacts for box terminal using the front clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point		
<ul> <li>finely stranded with core end processing</li> </ul>		16 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		16 70 mm²
• stranded		16 70 mm²
Type of connectable conductor cross-section for main contacts for box terminal using both clamping points		
<ul> <li>finely stranded with core end processing</li> </ul>		max. 1x 50 mm², 1x 70 mm²
<ul> <li>finely stranded without core end processing</li> </ul>		max. 1x 50 mm², 1x 70 mm²
• stranded		max. 2x 70 mm²
Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal		
<ul><li>using the back clamping point</li></ul>		6 2/0
<ul> <li>using the front clamping point</li> </ul>		6 2/0

<ul><li>using both clamping points</li></ul>	max. 2x 1/0
Type of connectable conductor cross-section for DIN	
cable lug for main contacts	
• finely stranded	16 95 mm²
• stranded	25 120 mm²
Type of connectable conductor cross-section for	
auxiliary contacts	
• solid	2x (0.5 2.5 mm²)
<ul> <li>finely stranded with core end processing</li> </ul>	2x (0.5 1.5 mm²)
Type of connectable conductor cross-section for	
AWG conductors	
• for main contacts	4 250 kcmil
• for auxiliary contacts	2x (20 14)
<ul> <li>for auxiliary contacts finely stranded with core end processing</li> </ul>	2x (20 16)

Ambient conditions:				
Ambient temperature				
<ul><li>during operation</li></ul>	°C	-25 +60		
during storage	°C	-40 <b>+</b> 80		
Derating temperature	°C	40		
Protection class IP		IP00		

## Certificates/ approvals:

General Product Approval	EMC	For use in
		hazardous
		locations















Declaration of Conformity	Test Certificates	Shipping A	pproval		other
$\epsilon$	spezielle Prüfbescheinigunge n	<b>J</b> Å	GL <sup>®</sup>	Lloyd's Register	Umweltbestätigung
EG-Konf.		DNV	GI	LRS	

UL/CSA ratings:		
yielded mechanical performance [hp] for three-phase		
AC motor		
● at 460/480 V		
<ul> <li>at standard circuit at 50 °C Rated value</li> </ul>	hp	75

#### • at 575/600 V

- at standard circuit at 50 °C Rated value

hp	100

Contact rating of the auxiliary contacts acc. to UL

B300 / R300

## Further information

## Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

# Industry Mall (Online ordering system) http://www.siemens.com/industrymall

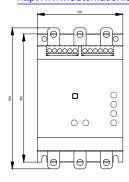
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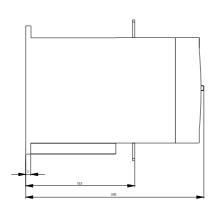
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40556BB35

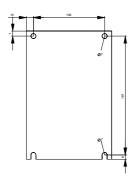
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

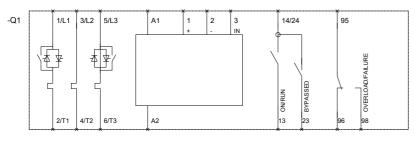
https://support.industry.siemens.com/cs/ww/en/ps/3RW40556BB35

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RW40556BB35&lang=en









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